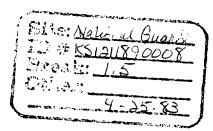
FIELD INVESTIGATIONS OF UNCONTROLLED HAZARDOUS WASTE SITES

FIT PROJECT



TASK REPORT TO THE ENVIRONMENTAL PROTECTION AGENCY

CONTRACT NO. 68-01-6692

Preliminary Assessment of the Kansas National Guard Armory Kansas City, Kansas

TDD #R-07-8303-12

Date: April 25, 1983

Prepared by: Gary E. Kepko

ecology and environment, inc.

International Specialists in the Environmental Sciences



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SECTION 1: INTRODUCTION

On March 28, 1983, the Ecology and Environment, Inc. (E&E) Field Investigation Team (FIT) was tasked by the U.S. Environmental Protection Agency (U.S.EPA) under Technical Directive Document (TDD) R-07-8303-12 to perform a preliminary assessment of the potential hazards of EPA site number KS 000010120. This site is presently the location of a Kansas National Guard Armory. Approximately 40 to 60 person hours were allocated for the completion of the task.

SECTION 2: SITE HISTORY

The Kansas National Guard Armory site is located at 18th and Ridge Streets, Kansas City, Kansas, 66102. The legal description of the site is NE 1/4, NE 1/4, Sec. 17,-T.11 S., R.25 E.

During the 10 year period from 1953 to 1963, the site was used by Owens - Corning Fiberglas Co., Sunshine and Fiberglas Roads, Kansas City, Kansas, as a landfill for process wastes. The site was and still is owned by the City of Kansas City, Kansas. While in operation the landfill was the object of numerous complaints of odors emanating from the site and leachate seeping from the area into a neighboring unnamed ravine.

Up until the late 1960's, the only regulations covering sanitary landfills were developed by the Corps of Engineers (COE); however, the regulations were only enforceable on military posts. Municipal landfills were basically unregulated and were generally operated without proper engineering controls such as leachate monitoring and containment, gas production monitoring, liners, regulating types of wastes accepted, or proper closing procedures.

A preliminary assessment of the potential hazard of this site is dictated by the probable lack of the above controls and possible acceptance of hazardous wastes generated by the Owens - Corning Corporation.

SECTION 3: RECEPTORS

The site is located in a heavily trafficked, densely populated, residential area of Kansas City, Kansas. The nearest off-site building is within 500 feet. It is generally accessible to the public and neighborhood children use the site as a playground.

There are no drinking water wells in the area; however, there are 9 water wells within a 1-mile radius of the armory. These wells are sources of process water and are owned by the Proctor and Gamble Company and the Colgate - Palmolive Company on Kansas Avenue.

SECTION 4: PATHWAYS

According to Jim Grohusky, Wyandotte County Health Department, the landfill was the object of numerous complaints while it was in operation. It was investigated by the health department in July, 1958, because of leachate seepage and odors and the investigators suggested closing the site. There have been no complaints of record since the site was closed in the middle 1960's.

There is a ravine next to the site by which leachate entered and flowed into the Kansas River, approximately 1-mile away. The depth to groundwater, according to well borings in the area, is about 40 feet. The net precipitation ranges from -10 inches to 5 inches per year. The soil is between 30 - 40 percent clay and has a low permeability rating. Bedrock is over 60 feet deep and consists of shale and limestone. For the most part, the bedrock is impermeable unless it is fractured.

SECTION 5: WASTE CHARACTERISTICS

Owens - Corning manufactures fiberglas insulation products and the wastes disposed at this site are a result of this process. There are no records of the amounts or of specific types of wastes; however, based on the production process and the CERCLA Section 103c notification submitted by Owens - Corning, the following types of wastes were probably disposed:

Metal sludges Solvents Phenol resins Adhesives (70% phenol formaldehyde, 30% Vinsol) Furnace refractory bricks Paper

The substances of most concern are probably the phenol resins and phenol formaldehyde. These substances have a Sax level 3 toxicity rating, a Sax level 1 persistance rating and a Sax level 2 rating for ignitability and solubility. Vinsol is manufactured by Hercules and is a byproduct of turpentine manufacturing from pine tree stumps. It is commonly used in the plastics industry as a filler. Since it is a natural resin it is probably easily biodegraded and of minor concern at the present time. The refractory bricks are probably magnesium oxide compounds, a moderately toxic substance if inhaled. They are of little concern at the present.

SECTION 6: WASTE MANAGEMENT PRACTICES

Considering the time frame during which this site was operated, it is likely that it was managed without any leachate control or monitoring, gas production monitoring or proper closure procedures. It is probable that the only liner is the natural soil which has moderate engineering limitations for use as a sanitary landfill. The amounts of waste are unknown and it is possible that the site received incompatible waste streams.

SECTION 7: CONCLUSIONS AND RECOMMENDATIONS

This site is located in a highly populated, densely trafficked area of Kansas City, Kansas. It is the site of a National Guard Armory and is generally accessible to the public. Neighborhood children frequently play on the site.

Groundwater is not used for drinking water or agricultural purposes.

Wastes accepted at this site have a high toxicity rating; however, they are generally non-persistent. The exception to the non-persistence characteristic would be the metal sludge. It has not been determined what metals are produced by the Owens - Corning process and it cannot be determined from present information if they are an environmental or health threat.

Based upon this information and the JRB Rating forms, we conclude that the site poses a low hazard. We recommend that the site be inspected and sampled for increased metal levels in the soil and for the presence of organic compounds, such as phenols and formaldehyde. Further investigation would be performed on a low to medium priority basis.

APPENDI X

POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION SITE NUMBER (In be see algred by Ha)

VII | KS-000010120

				1	
MOTE: This form is completed for ea submitted on this form is based on av- and on-site inspections.	ch potential hazardous was allable records and may be	ite site to help updated on sub	set priorities for bsequent forms as	site inspe a result o	ection. The information of additional inquiries
GENERAL INSTRUCTIONS: Complet Assessment). File this form in the Ragency; Site Tracking System; Hazar	egional Hazardous Waste Li	og File and su	bmit a copy to: U	S. Enviro	nmental Protection
	I. SITE IDEI	NTIFICATION			
A.SITE NAME National Guard Armory			ather Identifier) I Ridge		
. cιτγ Kansas City		D. STATE Kansas	E. ZIP CODE 66102	1	TY NAME ndot te
5. OWNER/OPERATOR (II knowπ) 1. NAME				2. TELE	PHONE NUMBER
H, TYPE OF OWNERSHIP 1. FEDERAL 32. STATE]3. COUNTY []4. MUNIC	CIPAL 5.	PRIVATE	UNKNOWN	
Old Owens-Corning dump s possibly parking lot on		h and Ridg	e. National	Guard .	Armory and
Uncongrolled Waste Site (ainta, OSHA citationa, etc.)		············		K. DATE IDENTIFIED (mo., day, & yr.) June 11, 1981
Chuck Linn or John				1	PHONE NUMBER 862-9360
I1.	PRELIMINARY ASSESSMEN		his section last)		
APPARENT SERIOUSNESS OF PROBL	_	s u	JNKNOWN		
B. RECOMMENDATION					
1. NO ACTION NEEDED (no hazard)		2. IMMED	HATE SITE INSPECTATIVELY SCHEDU	TION NEE	DED
3. SITE INSPECTION NEEDED TENTATIVELY SCHEDULED FOR First Quarter FY 82 b. WILL BE PERFORMED BY:		b. WILL	BE PEHFORMED	ВУ	
FIT Team	· ·	4. SITE II	NSPECTION NEEDS	ED (low pric	ocity)
C. PREPARER INFORMATION 1. NAME Deborah McKinley	r	•	PHONE NUMBER 374-6531		3. DATE (mo., day, & vr.) 9/11/81
	III. SITE IN	FORMATION			
A. SITE STATUS 1. ACTIVE (Those industrial or municipal altes which are being used for waste treatment, storage, or disposal on a continuing besis, even if infrequently.)	[X] 2. INACTIVE (Those sites which no longer receive wester)		hat include auch incl		"midnight dimpling" where este disposal has occured.)
B. IS GENERATOR ON SITE? [**] 1. NO	2. YES (apactly gener	rnior*# four=digi:	: SIC Code)		
C. AREA OF SITE (In acres)	D. IF APPARENT SEPIOUSNE 1. LATITUDE (Ucgmhi-sec		HIGH, SPECIFY CO		
Unknown E. ARE THERE BUILDINGS ON THE SITE	F†				
1. NO A 2. YES (enectly)		mory	•		

[_]6 TOXIC	JT REACTIVE [_]8	INERT []9. F	LAMMABLE		
10. OTHER (apecil	y):		_		
C. WASTE CATEGORIE	S	ma such as menifests, in	ventories, etc. below.		
2. Estimate the amo	unt(specify unit of med	isure) of waste by cate	gory; mark 'X' to indic	ate which wastes are p	resent.
. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	•. SOLID\$	1. OTHER
AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMCINT	AMOUNT
<u>Unknown</u>		Unknown	Unknown	Unknown	
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE
X' INPAINT. PIGMENTS	X' (1) OIL Y WASTES	'X' (1) HALOGENATED SOLVENTS	'X'	'X	'X'
X SLODGES	(2) OTHER (apacity):	(2) NON-HALOGNTD, SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(Z) HOSPITAL
(5) POTW	·	X 131 OTHER (specify):	(3) CAUSTICS	ISTMILLING/ MINE TAILINGS	(3) RADIOACTIVE
(4) A L UMINUM SLUDGE		Unknown solvents	(4) PESTICIDES	(4) FERROUS SMLTG. WASTES	(4) MUNICIPAL
I DI OTHER (*Peclly):			(8) DYES/INKS	(B) NON-FERROUS SMLTG, WASTES	(8) OTHER (*p*clly):
Slag			(8) CYANIDE	X ISIOTHER(*pocity): Asphalt;	
			X ITIPHENOLEResin	s fuma ce	
			(8) HALOGENS	refractory brick	
			(9) PC B	Paper	
•			XIIOIMETALS		
			Xother(*pecity) Adhesives		
EPA Form T2070-2 (10-	79)	A-2	E 2 OF 4	c	ontinue On Page 3

V. WASTE RELATED INFORMATION (continued)

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hezard).

thenolic resins, solvents, slag, asphalt, adhesives, and furnace refractory brick

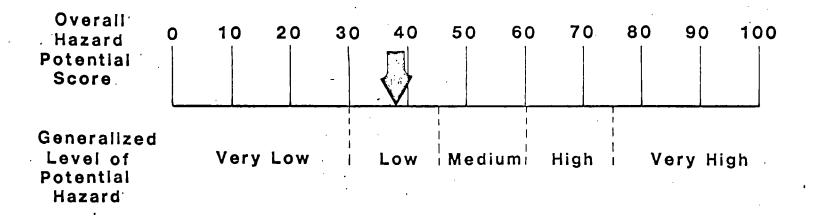
4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

		VI. HAZ	ARD DESCRIPT	ION
A. TYPE OF HAZARD	B. POTEN- TIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (ma.,day,yr.)	E. REMARKS
I. NO HAZARD			44.5	
2. HUMAN HEALTH		X	July, 1958	Significant amount of leachate flow through ravine in inhabited area.
3. NON-WORKER S. INJURY/EXPOSURE				
4. WORKER INJURY	·	,		
S. OF WATER SUPPLY				
CONTAMINATION OF FOOD CHAIN				
7. CONTAMINATION OF GROUND WATER				
CONTAMINATION OF SURFACE WATER		х	July, 1958	Leachate flowing through ravine reached the Kansas River
DAMAGE TO FLORA/FAUNA		<u>.</u>		
IO. FISH KILL				
11. CONTAMINATION				
12. NOTICEABLE ODORS		X	July, 1958	Leachate had offensive odor.
13. CONTAMINATION OF SOIL	Х			From past leachate.
14. PROPERTY DAMAGE				
IS. FIRE OR EXPLOSION				
16. SPILLS/LEAKING CONTAINERS/ RUNDFF/STANDING LIQUIDS				
17. SEWER, STORM DRAIN PROBLEMS				
18. EROSION PROBLEMS				
19. INADEQUATE SECURITY	х			
20. INCOMPATIBLE WASTES	x			Varied waste streams disposed of.
21. MIDNIGHT DUMPING				
2. OTHER (*p*clly): Continued leaching	X			Each truck load of waste material was sprayed with water at plant and
		[thoroughly wet at dump site.

rinued From Front
VII. PERMIT INFORMATION
A. INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE.
1. NPDES PERMIT 2. SPCC PLAN 3. STATE PERMIT (*pocily): 4. AIR PERMITS 5. LOCAL PERMIT 6. ACRA TRANSPORTER 7. ACRA STORER 6. ACRA DISPOSER
(a) 10. OTHER (apacily): Unknown
B. IN COMPLIANCE!
1. YES 2. NO 3. UNKNOWN
4. WITH RESPECT TO (list regulation name & number):
VIII. PAST REGULATORY ACTIONS
A. NONE B. YES (summarize below)
Unknown
IX. INSPECTION ACTIVITY (past or on-going)
A. NONE X B. YES (complete Items 1,2,3, & 4 below)
2 DATE OF 'S PERFORMED PAST ACTION BY: (mo., day, & yr.) (EPA/State) 4. DESCRIPTION
Nuisance investigation 7/8/58 State Response to complaint
X. REMEDIAL ACTIVITY (past or on-going)
A. NONE B. YES (complete items 1, 2, 3, & 4 below)
1. TYPE OF ACTIVITY B. YES (complete items 1, 2, 3, & 4 below) 2. DATE OF S. PERFORMED BY: (mu, dny, & yr.) (EPA/State) 4. DESCRIPTION
NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.
EPA Form T2070-2 (10-79) PAGE 4 OF 4

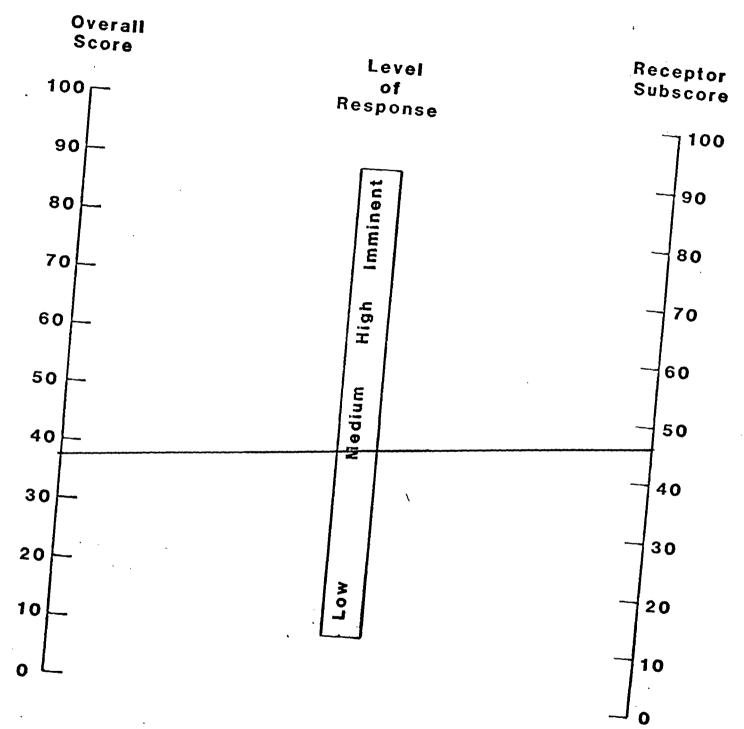
• •	RATING FURM FUR WAS							
NAME OF SITE National Gua	ard Armory and Parking Lo	<u>t</u> _,	CTIVI	E (MA	CTIVE	HACTIVE ,	AND ABANDONE	D ICIRCLE ONE)
LOCATION <u>18th & Ridge.</u>				_				
OWNER/OPERATOR Owens	Corning Fiberglas, Sunsh	<u>ine</u>	<u>& F</u>	<u>iber</u>	glas	s Rds.,	Kansas Cit	y, Kansas
COMMENTS: Site was used	from 1953 - 1963 as a di	<u>spo</u> :	<u>sa 1</u>	area	ı fo	<u>r wastes</u>	by Owens	- Corning
<u>It was not owned by</u>	Owens - Corning at the t	ime		t wa	ıs a	nd is pr	esently ow	ned by
the City of Kansas C	City, Kansas and is the 1	tsáo.	ممنا	_of_	a N	ational	Guard Armo	ry
	<u> </u>		•					·
PREPARED BY: Gary E. Kepk	(0		<u></u>			on_Ma	rch 30,	19 83
RATING FACTOR	SOURCE AND BASIS OF INFORMATION			RATII	_	MULTI- PLIER	SITE	MAXIMUM POSSIBLE SCORE
-	RECEPTO	RS				4		<u> </u>
POPULATION WITHIN 1,000 FEET	Densely populated area	0	•	2	0	12	36	36
DISTANCE TO NEAREST DRINKING- WATER WELL	No drinking water wells	0	[•	2	3	8	0.	24
DISTANCE TO NEAREST OFF-SITE BUILDING	No. of buildings in are	0	1	2	0	8	24	24
LAND USE/ZONING	Residential	0	1	2	6	6	18	.18
CRITICAL ENVIRONMENTS	None	0	1	2	3	6	0	18
ADDITIONAL POINTS FOR OTHER RECEPTORS	·							50
NUMBER OF MISSING AND ASSUME	D VALUESOOUT OF E.				s	UBTOTALS	78	170
PERCENTAGE OF MISSING AND ASSI	UMED VALUES = 0 %.				(S	UBSCORE		46 -
						AXIMUM SC	ORE AND MULTI	IPLIED BY 100.)
	PATHWAY		·		T	 	1	
EVIDENCE OF CONTAMINATION	Past problem of seepage of leachate	•	0	2	3	2	2	6
LEVEL OF CONTAMINATION	Assumed	•	0	2	3	7	7	21
TYPE OF CONTAMINATION	Assumed	0	1	2	3	5	15	15
DISTANCE TO NEAREST SURFACE WATER	1.0 mile to Kansas Rive	. 0	,	0	3	8	16	24
DEPTH TO GROUNDWATER	Approx. 40 feet	0	1	3	3	7	14	21 ⁻
NET PRECIPITATION	-10 to +5 inches	•	0	2	3	6	6	18
SOIL PERMEABILITY	30 - 40% clay	0	0	2	3	8	6	18
BEDROCK PERMEABILITY	Shale and limestones	9	1	2	3	4	0	12
DEPTH TO BEDROCK	Greater than 60 ft.	0	1	2	3	4	0	12
ADDITIONAL POINTS FOR OTHER PATHWAYS								25
NUMBER OF MISSING AND ASSUMED	VALUES = 2 OUT OF 9.				BL	JBTOTALS	66	172
					SL	JBSCORE ITE SCORE DI	DADED BY	38
PERCENTAGE OF MISSING AND ASSL	UMED VALUES - 22 %.				(5.	ITE SLUNE D	DRE AND MULTIP	

NAME OF SITE National (Guard Armory							
	WASTE CHARA	CTERIS	TICS	—-			-	
TOXICITY Sax Level 3	Phenols/formaldehydes		1	2	0	7	21	21
RADIOACTIVITY	Assumed	0	1	2	3	7	0	21
PERSISTENCE	(Pheno1)	•	0	2	3	6	5	15
KINTABILITY	(Phenol)	0	,	(3)	3	3	6	9
REACTIVITY	(Phenol)	0	1	2	3	3	0	9
CORROSIVENESS	(Phenol)		1	2	3	3	0	9
SOLUBILITY	(Phenol)	0.	1	0	3	4	8	12
VOLATILITY	(Phenol)	•	0	2	3	4	4	12
PHYSICAL STATE	Liquid	·	1	3	3	4	8	12
ADDITIONAL POINTS FOR OTHER WASTE CHARACTERISTICS								20
NUMBER OF MISSING AND ASSUME	ED VALUES =OUT OF 9.				SUB	TOTALS	52	140
PERCENTAGE OF MISSING AND AS	SUMED VALUES = 11 %.					SCORE E SCORE D	DIVIDED BY	37
					MA	CIMUM SC	ORE AND MULTIP	LIED BY 100.)
	WASTE MANAGEM	ENT PR	ACTIC	E S				
SITE SECURITY	Closed	0	1	2	3	7	0	21
HAZARDOUS WASTE QUANTITY	Assumed	0	0	2	3	7	7	21
TOTAL WASTE QUANTITY	Assumed	0	0	2	3	5	5	15
WASTE INCOMPATIBILITY	Assumed	0	1	2	3	5	0	15
USE OF LINERS	Assumed	•	1	2	0	3	9	9
USE OF LEACHATE COLLECTION SYSTEMS	Assumed	•	1	2	0	3	9	9
USE OF GAS COLLECTION SYSTEMS	Assumed	0	,	2	9	2	6	6
USE AND CONDITION OF CONTAINERS	N/A	0	١	2	,	2	0	6
ADDITIONAL POINTS FOR OTHER WASTE MANAGEMENT PRACTICES							., .	30
NUMBER OF MISSING AND ASSUM	TED VALUES - 6 OUT OF B.				EUB.	TOTALS	36	132
PERCENTAGE OF MISSING AND AS	SUMED VALUES = 75					SCORE	VIDED BY	27
							DRE AND MULTIPL	JED BY 100)
NUMBER OF MISSING AND ASSUM		TOTAL	SITE	SCORI	E	232		
VALUES = 9 OUT OF 31.							CORE 614	
PERCENTAGE OF MISSING AND ASSUMED VALUES = 29	S	OVERA	LL SC	ORE _	IDED B	38 Y MAXIMI	UM SCORE	



Arrow Indicates Hazard Level

Absolute Level of Hazard of Waste Disposal Sites



Appropriate Level of Response



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

REGION	SITE	NUMBER	(to be	assign
	ed by	r Hq)		-

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Tack Force (EN-335); 401 M St., SW; Washington, DC 20460.

	I. SITE IDEN				
A. SITE NAME		B. STREET (or	-		
National Guard Armor	ry and Parking Lot	18th and	Ridge	* AMUSEV II.I	
		D. STATE		F. COUNTY NAM	IE
Kansas City G. SITE OPERATOR INFORMATION		Kansas	66102	Wyandotte	
1. NAME			ł	2. TELEPHONE	NUMBER
Owens - Corning Fige	erolas		Į	913/281-28	211
a. STREET	4. CITY			8. STATE	6. ZIP CODE
Sunchine and Fibergl	las Roads Kansas Ci	ity		Kansas	66101
	different from operator of aite)				
City of Kansas City,	Kancac			2. TELEPHONE 913/371-20	· · · · ·
				4. STATE	B. ZIP CODE
8. CITY Kansas City	•			Kansas	66101
	· Taraban of Nations	7 C A A	<u></u>		
rresentis	/ location of Nationa		mory and ra	rking Lot;	from
J. TYPE OF OWNERSHIP	963 used as a landfil	<u> </u>			
1. FEDERAL 2. STAT	E 3. COUNTY X	4. MUNICIPAL	5. PRIVAT	Έ	
<u> </u>	- -		_		
	II. TENTATIVE DISPOSITIO	N (complete thi	s section last)		
A. ESTIMATE DATE OF TENTATIVE	B. APPARENT SERIOUSNESS	S OF PROBLEM			
DISPOSITION (mos, day, & yrs)	□ 1. нієн □	2. MEDIUM	☐ 3. LO₩	4. NONE	
C. PREPARER INFORMATION 1. NAME		2. TELEPHON	~ MIMBER	3. DATE (mo., d	au A we.)
1. NAME	1	Z. IELEFOUR	E NUMBER .	3. Unit (, -	87, 06 F117.
	· · · · · · · · · · · · · · · · · · ·				
A. PRINCIPAL INSPECTOR INFORMA	III. INSPECTION	INFURMATIO	R		
1. NAME		2. TITLE			
Gary E. Kepko		Field In	vestigation	Team	
S. ORGANIZATION	\		¬	4. TELEPHONE	No.(area code & no.)
Ecology and Environm	nent. Inc.			913/371-3	213
B. INSPECTION PARTICIPANTS	NATIVE AUG.				
1. NAME	2. ORGA	NIZATION		3. TELE	PHONE NO.
					-
					···
		en service		يماري مساعدة حدا	manual bearing and an arranged
	<u> </u>		1		
· -	the state of the s	د د د			
		idente)			
C. SITE REPRESENTATIVES INTERV	2. TITLE & TELEPHONE NO			ADDRESS	
1. NAME	Z. HILE & IELEPHONE NO		- Corning F		rnoration
Wm. L. Kreutz	419/248-8220		las Tower,		
	775,210 0225		County Heal		
Jim Grohusky	913/321-4803		n Street, Ka		
			National Gu		
Wes Bartley	816/374-2725	18th a	nd Ridge, Ka	ansas City,	Ks. 66102
					1
· ·	,.	1			
		j .			

Continued From Front				
		ECTION INFORMATION (co	ntinued)	•
D. GENERATOR INFORMATION		· · · · · · · · · · · · · · · · · · ·		·
1. NAME	2. TELEPHONE NO.	8. ADDF		4. WASTE TYPE GENERATED
Owens-Corning Fiber	glas 913/281-28	31 Sunshine & Fiber	glas Rd.,K.C.,KS	Solid & liquid
	1			·
E. TRANSPORTER/HAULER IN	I	<u> </u>		<u> </u>
1. NAME	2. TELEPHONE NO.	3. ADDF	E55	4.WASTE TYPE TRANSPORTE
Miller Brothers Cor	struction Co.			Solid & liquid
	<u> </u>		 -	
	į			
F. IF WASTE IS PROCESSED O	N SITE AND ALSO SHIP	PED TO OTHER SITES, IDENTI	FY OFF-SITE FACILITIES	S USED FOR DISPOSAL.
1. NAME	2. TELEPHONE NO.		3. ADDRESS	
	<u> </u>		·	
,				•
				· · · · · · · · · · · · · · · · · · ·
•				
G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTIO	ON I. ACCESS GAINED BY: (cre	dentials must be shown in	ell cases)
		1. PERMISSION	2. WARRANT	
J. WEATHER (describe)				
A2 ON	MPLES I	V. SAMPLING INFORMATIO		
A. Mark 'X' for the types of				ner EPA lab, contractor,
etc. and estimate when th				
1.SAMPLE TYPE	2.SAMPLE TAKEN	3.SAMPLI	SENT TO:	4. DATE RESULTS
	(mark 'X')			AVAILABLE
a. GROUNDWATER				
L SUPPLET WATER				· · · · · ·
b. SURFACE WATER				
C. WASTE				
d. AIR				
e. RUNOFF			*	<u> </u>
4 400				
£ SPILL			· · · · · · · · · · · · · · · · · · ·	
g. SOIL		• ••		
h. VEGETATION	1 1			
i. OTHER(epecily)		 -		
B. FIELD MEASUREMENTS TA				
11.TYPE	2. LOCATIO	N OF MEASUREMENTS	3. K	ESULTS
				_ · _
· · · · · · · · · · · · · · · · · · ·			·	
	1			
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		A-10		•.

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Continue On Reverse

Continued From Front

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Continued From Front	VIII. HAZARD DESCRIPTION (continued)		,
H. DAMAGE TO FLORA/FAUNA			
·			
None			11
		•	
1. FISH KILL			
N			
None -			
		•	
J. CONTAMINATION OF AIR			
<u> </u>			
None			
}			
}			
İ			
K. NOTICEABLE ODORS			
•			
See VIII A. above.			
1			
ł		·•	
L. CONTAMINATION OF SOIL			
See VIII F. above.			٠
	•		
1			
l			
M. PROPERTY DAMAGE			
<u> </u>			
None			
ł			
1			
i			
Ī			

N. FIRE OR EXPLOSION			
O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID None P. Sewer, Storm drain problems None			•
O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID None P. Sewer, Storm drain problems None			
None P. SEWER, STORM DRAIN PROBLEMS None			•
None P. SEWER, STORM DRAIN PROBLEMS None			
None P. SEWER, STORM DRAIN PROBLEMS None			•
None P. SEWER, STORM DRAIN PROBLEMS None			
None P. SEWER, STORM DRAIN PROBLEMS None Q. EROSION PROBLEMS			
None P. SEWER, STORM DRAIN PROBLEMS None			·
P. SEWER, STORM DRAIN PROBLEMS None Q. EROSION PROBLEMS			• •
P. SEWER, STORM DRAIN PROBLEMS None Q. EROSION PROBLEMS			
None Output		•	
None Output		• •	
None Output			
None Output			
None Output		•	
None Output			
Q. EROSION PROBLEMS			
			,
	-		
·			
·			
None			
none ·			
			
R. INADEQUATE SECURITY	4		
None	•		
	the second	,	
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			· · · · · · · · · · · · · · · · · · ·
X S. INCOMPATIBLE WASTES			
See VIII F. above.			

		VIII. HAZARD DES	CRIPTION (continued)					
T. MIDNIGHT DUMPING					· · · · · · · · · · · · · · · · · · ·			
						1		
••								
None						j		
						t		
						ł		
						1		
Y U. OTHER (epocity):								
The site appears engineered or p wastes was proba	s typic lanned ably d achate	cal of many du as a sanitary isposed of. Pi or gas produc	a disposal site mp sites used in landfill and the hysical closing tion monitoring. e armory.	the eret of t	e past. It was fore a variety o the site did not	not of t take		
	IX.	POPULATION DIREC	TLY AFFECTED BY S	TE				
A. LOCATION OF POPULATION	ATION B. APPROX. NO. OF PEOPLE AFFECTED		C.APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA		D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify unite)		
1.IN RESIDENTIAL AREAS	Greater than 1000		Greater than 1000		Greater than 10			
IN COMMERCIAL OR INDUSTRIAL AREAS	1000		Cuantan the Took		.	within		
	Great	ter than 1000	Greater than 10	100_	reater than I	<u>() l.()-mile</u> r Within		
IN PUBLICLY TRAVELLED AREAS	Great	ter than 1000	Greater than 10	າດດ	Greater than 10			
PUBLIC USE AREAS ((parks, schools, stc.)			2.27,7	Citv Park	within 1.0 mile radi			
			D HYDROLOGICAL DAT					
A. DEPTH TO GROUNDWATER(epecify unit)		1		C. GROUNDWATER USE IN VICINITY				
d. POTENTIAL VIELD OF AQUIFER		SOUTH	INKING WATER SUPPLY	Plant water (industrial) F. DIRECTION TO DRINKING WATER SUPPLY				
D. FOTERTIAL TIELD OF AQUIPER		E. DISTANCE TO DRINKING WATER SUPPLY (apecify unit of measure)			south			
G. TYPE OF DRINKING WATER SUPI	PLY	l 1.0 mile		1 50	utri			
	2. COMMU	INITY (specify town):	Kansas River					
X 3. SURFACE WATER	4. WELL							
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Continued From Page 8 X. WATER AND HYDROLOGICAL DATA (continued) H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE 8. COMMUN-ITY (mark 'X') A.
NON-COMMUNITY
(mark 'X') 1. WELL 2. DEPTH (apecify unit) 3. LOCATION (proximity to population/buildings) I. RECEIVING WATER I. NAME Z. SEWERS 3. STREAMS/RIVERS Kansas River 4. LAKES/RESERVOIRS S. OTHER(apecity): 6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS XI. SOIL AND VEGITATION DATA LOCATION OF SITE IS IN: B. KARST ZONE C. 100 YEAR FLOOD PLAIN D. WETLAND A. KNOWN FAULT ZONE E. A REGULATED FLOODWAY F. CRITICAL HABITAT G. RECHARGE ZONE OR SOLE SOURCE AQUIFER XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts. A. CVERBURDEN C. OTHER (epocity below) B. BEDROCK (epecify below) 1. SAND Greater than 5 feet (depth) Some areas are paved. 2. CLAY 30-40% 3. GRAVEL XIII. SOIL PERMEABILITY C. HIGH (1000 to 10 cm/eec.) B. VERY HIGH (100,000 to 1000 cm/sec.) A. UNKNOWN F. VERY LOW (.001 to .00001 cm/eec.) E. LOW (.1 to .001 cm/sec.) D. MODERATE (10 to .1 cm/+ec.) G. RECHARGE AREA 2. NO 3. COMMENTS: 1. YES H. DISCHARGE AREA ___ 2. NO 3. COMMENTS: 1. YES I. SLOPE 1. ESTIMATE % OF SLOPE 2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC. slope south J. OTHER GEOLOGICAL DATA The immediate area of the site recharges the groundwater which in turn discharges to the Kansas River during normal river elevations.

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NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

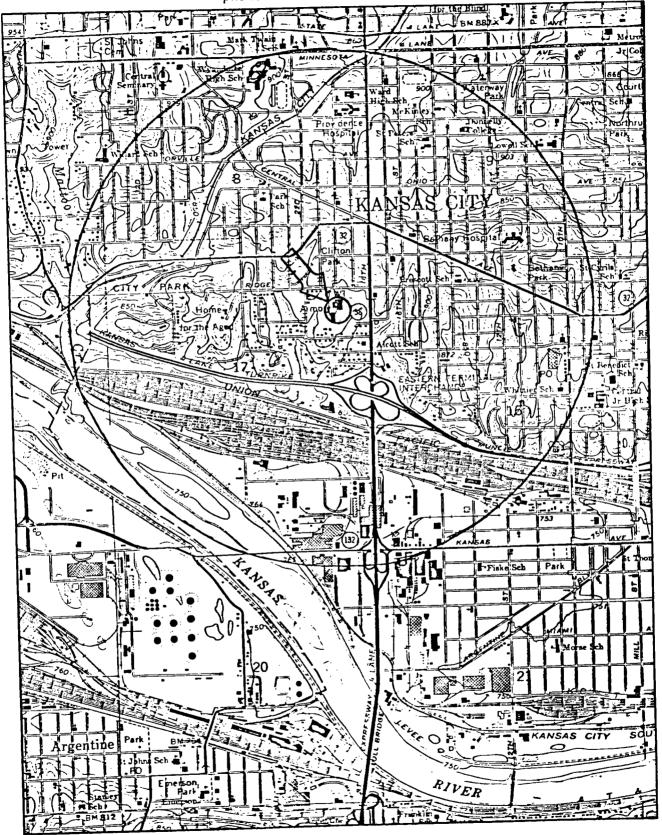
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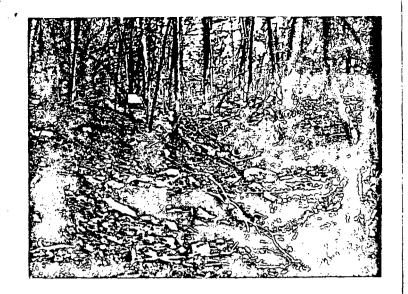
Sec. IX Site is located in highly populated, well traveled area of Kansas City, Kansas.

Shawnee Quadrangle Kansas

7.5 minute series (Topographic) photorevised 1975



Arrow indicates location of site Circle indicates 1.0 mile radius from site



P	h	0	t	0	q	r	a	р	h	e	r	:
---	---	---	---	---	---	---	---	---	---	---	---	---

Russ Krohn

Witness:

Gary Kepko

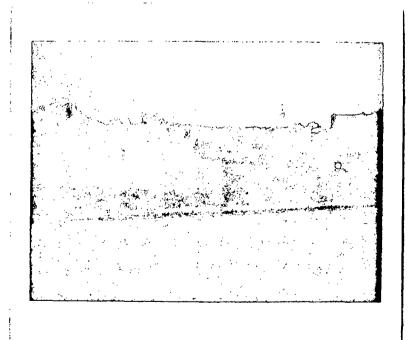
Date: April 26, 1983

Time: 1200 hours

Direction: N

No. 1 Subject: Ravine

Facility: Kansas National Guard Armory



Photographer:

Russ Krohn

Witness:

Gary Kepko

Date: April 26, 1983

Time: 1200 hours

Direction__SW

No. 2 Subject: Kansas National Guard Armory

Facility: Kansas National Guard Armory